

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, PESHAWAR

Secondary School Certificate (S.S.C.) Annual Examination 2024

COMPUTER SCIENCE

Class: 10th	Ref: PR - X (A-I-B6) (24)	Medium: English
Time: 2 Hours 30 Minutes		Total Marks: 55

SECTION - A (Objective)

Time: 15 minutes · Marks: 11

Fill only the circle of the correct answer. (Rubric printed in Urdu on the sheet — see notes.)

- 1) Sequential steps of instruction to solve a problem is:
A. Solution B. Statement C. Algorithm D. Calculation
- 2) General sequence of steps is determined by:
A. High level language B. Program syntax
C. Low level language D. Program semantic
- 3) To create and run C program, we need:
A. C language compiler B. C language loader
C. C language linker D. C language debugger
- 4) Syntax for printf is:
A. printf("string"); B. printf("string");
C. print("string"); D. printf(string);
- 5) Function of increment operator (++) in C language is to:
A. add 1 B. add 2 C. minus 1 D. minus 2
- 6) Syntax of skip statement is;
A. if {condition} statement% B. if ("condition") statement
C. if (condition) "statement" D. if (condition) statement;
- 7) Initialization part of for loop executes:
A. Thrice B. Twice C. Never D. Once
- 8) Continue statement is also called:
A. Start B. Execute C. Bypass D. Switch
- 9) Plus sign denotes:
A. OR gate B. NOT gate C. NAND gate D. AND gate
- 10) Web page is identified by unique:
A. name B. URL C. Location D. Address
- 11) Imparting of knowledge is done through:
A. Educational websites B. Business websites
C. News websites D. Informational websites

Note: Time allowed for Section - B and Section - C is 2 Hours and 15 minutes.

SECTION - B

Marks: 28

Q2: Answer any SEVEN parts. Each part carries FOUR marks.

- i) Write the steps of algorithm to calculate the exponent of a given number.
- ii) Data is converted from assembly language to machine language, write its mechanism?
- iii) Write the correct sequential process of C language compiler?
- iv) Make diagram showing working of cout object.
- v) What is the use of semicolon; in C program, write its syntax.
- vi) Differentiate between single and compound if statement.
- vii) Draw the diagram of working of for loop.
- viii) What are Basic Logic gates, name three basic logic gates?
- ix) Write purpose of entertainment website with two examples.

SECTION - C

Marks: 16

Note: Attempt any TWO questions in detail. All questions carry equal marks.

- Q3:** What is OOP language? What are the characteristics of high level language?
- Q4:** Write use and syntax of cin function. Also draw working of cin object diagram?
- Q5:** Write a program in C language using do-while loop to find that an input number is even or odd?

Notes on this transcription

1. Typeset transcription of the Peshawar Board English-medium sheets (SLO-based paper, ref PR - X (A-I-B6) (24)). Only the English-medium printing was supplied.
2. The Section-A rubric is printed only in Urdu on the sheet (fill only the correct circle; use a blue or black marker; filling more than one circle counts as wrong); given here as an English rendering.
3. The source sheet came with answers already marked by the publisher. Options are given here unmarked; no answer key is included.
4. Section B prints no section total; 28 follows from seven parts at four marks each. The overall 2½-hour / 55-mark totals are not printed on these sheets and are given from the section marks (11 + 28 + 16).
5. Options in questions 4 and 6 are set exactly as printed, including the colon ending the first option of question 4 and the "%" ending the first option of question 6 — these are the distractors, not errors in this transcription.
6. The 2024 paper follows the newer SLO-based syllabus and mentions **cout/cin** objects alongside C, as printed.
7. Peshawar sheets print no group label, so the paper is filed without one.